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communication equipment is converted into a digital audio signal,

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said subscriber side apparatus comprising a line concentrator to concentrate the digital audio signal together with the high-speed digital data by time division, and supplied to the subscriber line after being modulated by a first ADSL modem, while after a signal received from the station through the subscriber line is demodulated by the first ADSL modem, the digital audio signal is converted into an analog audio signal and supplied to the analog communication equipment, and at the same time high-speed digital data is supplied to the high-speed digital data equipment; and

an apparatus on the station side in which a signal received from said apparatus on the subscriber side through the subscriber line is demodulated by a second ADSL modem, thereafter the digital audio signal is converted into an analog audio signal, which is supplied to an analog telephone network, and at the same time high-speed digital data is supplied to a high-speed digital data network, while an analog audio signal of the analog telephone network is converted into a digital audio signal,

said station side apparatus comprising a line concentrator to concentrate the digital audio signal together with high-speed digital data of the high-speed digital data network by time division, and supplied to the subscriber line after being modulated by the second ADSL modem,

wherein said apparatus on the subscriber side and apparatus on the station side convert each digital audio signal as well as each high-speed digital data into asynchronous transfer mode (ATM) cells in each respective line concentrator and attach each destination address to the ATM cells.

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2. (Amended) An ADSL system as set forth in Claim 1, wherein said apparatus on the subscriber side converts each analog audio signal of a plurality of analog communication equipment into each digital audio signal and concentrates the digital audio signal together with the high-speed digital data by time division.

3. (Amended) An ADSL system as set forth in Claim 1, wherein said apparatus on the subscriber side and said apparatus on the station side convert each digital audio signal as well as each high-speed digital data into ATM cells, attach each destination address to the ATM cells in the line concentrator, and concentrate the digital audio signal together with the high-speed digital data.

4. (Amended) An ADSL system as set forth in Claim 1, wherein said apparatus on the subscriber side converts each analog audio signal of a plurality of analog communication equipment into each digital audio signal and concentrates the digital audio signal together with high-speed digital data by time division, and

said apparatus on the subscriber side and apparatus on the station side convert each digital audio signal as well as each high-speed digital data into ATM cells, attach each destination address to the ATM cells in the line concentrator, and concentrate the digital audio signal together with the high-speed digital data.

5. (Amended) An ADSL system as set forth in Claim 1, wherein said apparatus on the subscriber side and apparatus on the station side divide each digital audio signal as well as

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high-speed digital data into fixed time slots and the digital audio signal together with the high-speed digital data is supplied to the subscriber line after being modulated by the first ADSL modem.

6. (Amended) An ADSL system as set forth in Claim 1, wherein said apparatus on the subscriber side converts each analog audio signal of a plurality of analog communication equipment into each digital audio signal and concentrates the digital audio signal together with high-speed digital data by time division, and said apparatus on the subscriber side and apparatus on the station side divide each digital audio signal as well as high-speed digital data into fixed time slots and the digital audio signal together with the high-speed digital data is supplied to the subscriber line after being modulated by the ADSL modem.

7. (Amended) An asymmetrical digital subscriber line (ADSL) system for transferring an analog audio signal of an analog communication equipment and high speed digital data of a high speed digital data equipment provided in an apparatus on a subscriber side, from and to an apparatus on a station side, through one subscriber line, comprising:

said apparatus on the subscriber side comprises

an analog-to-digital/digital-to-analog (AD/DA) converter for converting an analog audio signal of the analog communication equipment into a digital audio signal or converting a digital audio signal into an analog audio signal, to supply the same to the analog communication equipment, and supplying the high-speed digital data to the high-speed digital data equipment;

a line concentrator for concentrating the digital audio signal and the

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high-speed digital data by time division; and

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a first ADSL modem for modulating the digital audio signal and the high-speed digital data and supplying the modulated signal to the subscriber line, and demodulating a modulated signal received from the station side through the subscriber line;

said apparatus on the station side comprises

a second ADSL modem for demodulating the modulated signal received from said apparatus on the subscriber side through the subscriber line and modulating a digital audio signal and high-speed digital data to be supplied to the subscriber line; and

a line concentrator for supplying the digital audio signal modulated by said second ADSL modem to an analog telephone network as well as supplying the high-speed digital data to the high-speed digital data network, and concentrating the digital audio signal from the analog telephone network and the high-speed digital data from the high-speed digital data network by time division, then to send the digital audio signal together with the high-speed digital data to said first ADSL modem,

wherein said apparatus on the subscriber side and said apparatus on the station side convert each digital audio signal and the high-speed digital data into asynchronous transfer mode (ATM) cells in each respective line concentrator and attach a destination address to the ATM cells.

8. (Amended) An ADSL system as set forth in Claim 7, wherein said apparatus on the

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subscriber side comprises a plurality of ones of the AD/DA converters corresponding to a plurality of analog communication equipment; and

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said line concentrator in said apparatus on the subscriber side concentrates each digital audio signal converted by the plurality of AD/DA converters, together with the high-speed digital data, by time division.

9. (Amended) An ADSL system as set forth in Claim 7, wherein said line concentrators in said apparatus on the subscriber side and in said apparatus on the station side convert digital audio signals and high-speed digital data into ATM cells in the line concentrators, attach each destination address to the ATM cells and concentrate the digital audio signal together with the high-speed digital data.

10. (Amended) An ADSL system as set forth in Claim 7, wherein said apparatus on the subscriber side comprises a plurality of ones of the AD/DA converter corresponding to a plurality of analog communication equipment, and said line concentrators in said apparatus on the subscriber side and in said apparatus on the station side convert digital audio signals and high-speed digital data into ATM cells, attach each destination address to the ATM cells in the line concentrator, and concentrate the digital audio signal together with the high-speed digital data.

11. (Amended) An ADSL system as set forth in Claim 7, wherein said line concentrators in said apparatus on the subscriber side and in said apparatus on the station side divide each digital audio signal and high-speed digital data into fixed time slots, and the digital audio

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signal together with the high-speed digital data is supplied to the subscriber line after being modulated by said ADSL modem.

12. (Amended) An ADSL system as set forth in Claim 7, wherein said apparatus on the subscriber side comprises a plurality of ones of the AD/DA converter corresponding to a plurality of analog communication equipment, and said line concentrators in said apparatus on the subscriber side and in said apparatus on the station side divide each digital audio signal and high-speed digital data into fixed time slots, the digital audio signal together with the high-speed digital data is supplied to the subscriber line after being modulated by said ADSL modem.

Please add the following new claims:

13. (New) An ADSL system as set forth in Claim 1, wherein each said first and second line concentrator comprises an ATM cell convertor, and wherein individual destination addresses are attached to each ATM cell.

14. (New) An ADSL system as set forth in Claim 7, wherein each said first and second line concentrator comprises an ATM cell convertor, and wherein individual destination addresses are attached to each ATM cell.

15. (New) A method of transferring an analog audio signal over an asymmetrical digital subscriber line (ADSL) containing high-speed digital data, comprising:
providing an apparatus on a subscriber side of the network comprising an analog

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audio signal of an analog communication device and high-speed digital data of a high-speed digital data device, comprising:

converting the analog audio signal into a digital audio signal;
converting each digital audio signal and each high-speed data into asynchronous transfer mode (ATM) cells in a line concentrator;
attaching each destination address to each ATM cell;
concentrating said converted digital audio signals together with said converted high-speed digital data into an ATM cell string signal using time division;
modulating said ATM cell string with a first ADSL modem; and
transmitting said modulated ATM cell string signal to the subscriber line; and

receiving the ATM signal from said subscriber side into an apparatus on the station side, comprising:

demodulating said ATM signal with a second ADSL modem;
converting said concentrated digital audio signal into an analog audio signal;
transmitting said analog audio signal to an analog telephone network; and
transmitting said concentrated high-speed digital data to a high-speed digital network.

16. (New) The method of claim 15, further comprising:

dividing each digital audio signal and each high-speed digital data into fixed time slots; and

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supplying said divided digital audio signals together with said high speed digital data to said subscriber line after modulation by said first ADSL modem.

17. (New) The method of claim 15, further comprising:

extracting a payload from said ATM cell string and converting said extracted digital audio signals into analog audio signals.

18. (New) The method of claim 15, wherein said concentrating said converted digital audio signals together with said converted high-speed digital data using time division comprises multiplexing said signals and said data in a multiplexer.

19. (New) The method of claim 15, wherein said concentrating said converted digital audio signals together with said converted high-speed digital data comprises modulating said ATM cells received from said line concentrator.

20. (New) The method of claim 15, further comprising:

transmitting an ATM cell string having an address attached for the analog telephone network by said second line concentrator to said analog telephone network; and

transmitting an ATM cell string having an address attached for the high-speed digital network to a high speed digital telephone network.- -

IN THE ABSTRACT:

Please replace the abstract with the Abstract on the following page.